

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P147440

Luminaire Tested: **TMU-E01-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147440
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E01-LED-E-U-5MQ
Description: TALON MEDIUM LED AREA LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3223.8 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

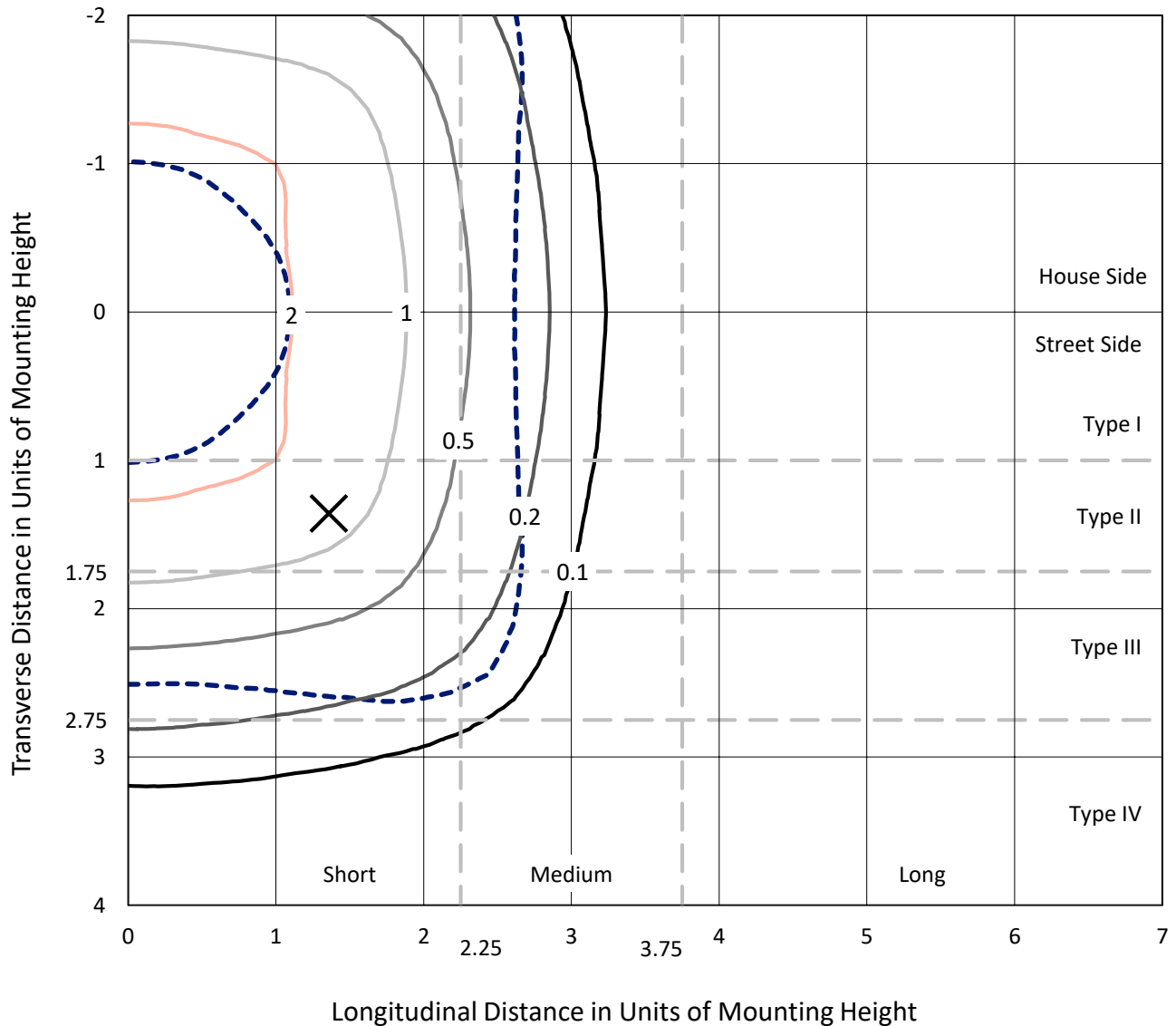


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

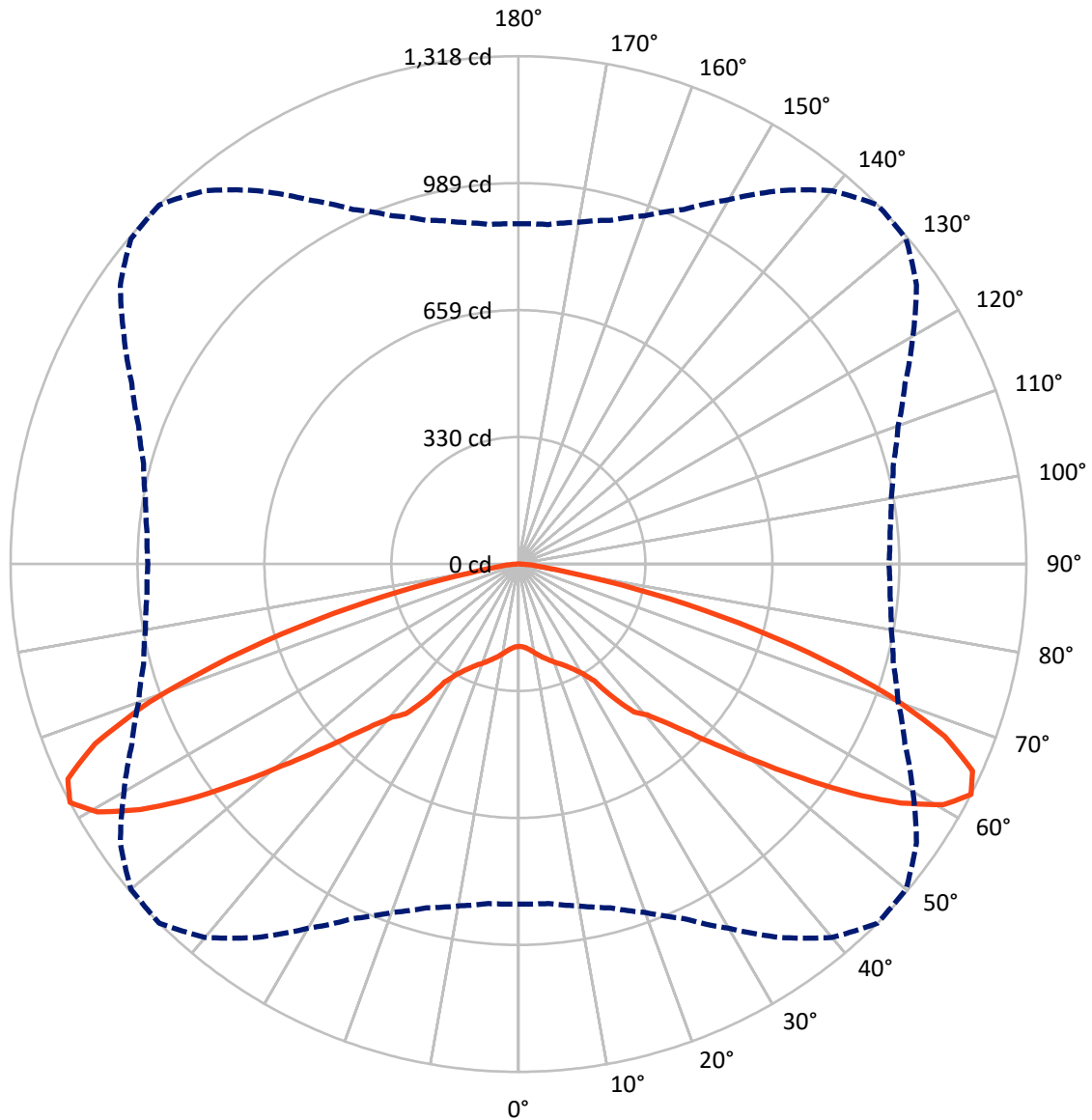


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1611.9	0.0	1611.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1611.9	0.0	1611.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	3223.8	0.0	3223.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	0.7
10°-20°	72.5	2.2
20°-30°	140.2	4.3
30°-40°	271.4	8.4
40°-50°	490.0	15.2
50°-60°	852.1	26.4
60°-70°	967.3	30.0
70°-80°	375.0	11.6
80°-90°	33.8	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3223.8	100.0
0°-180°	3223.8	100.0



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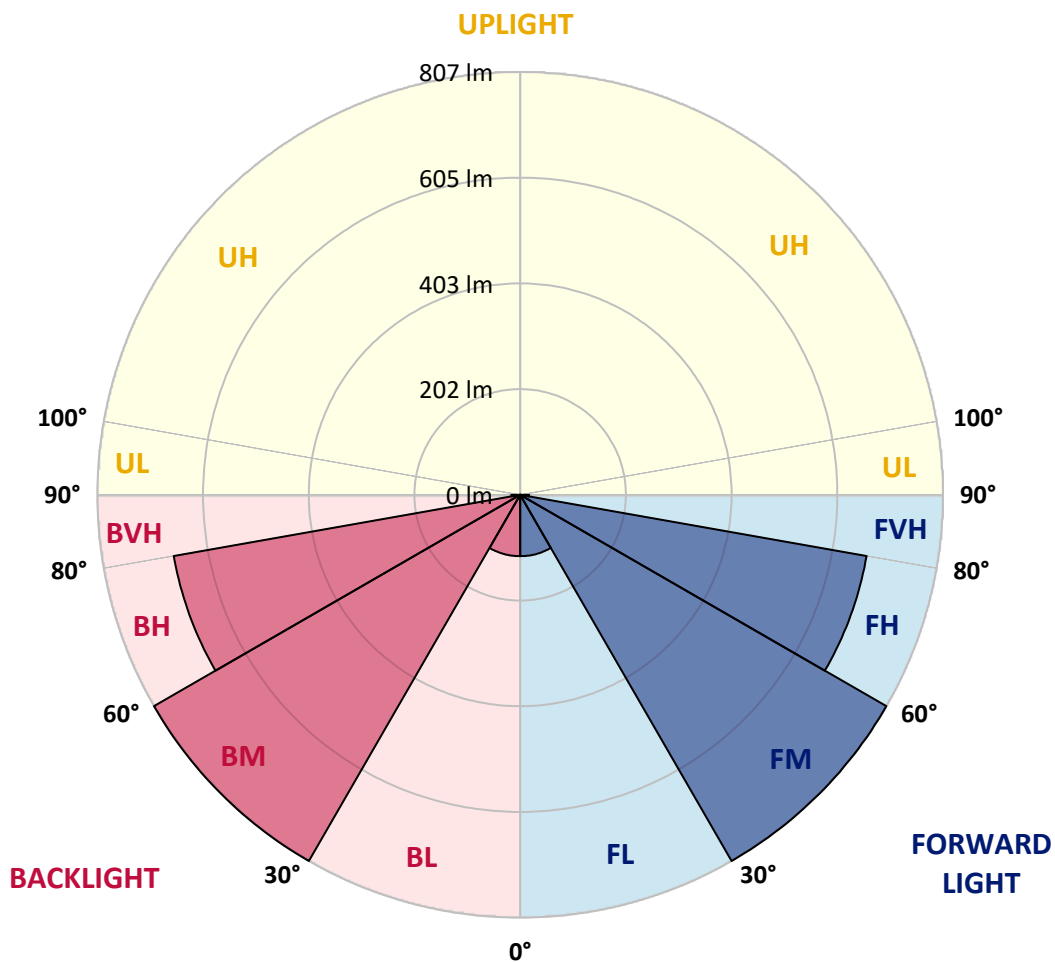
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.1	3.6			
FM	(30°-60°)	806.7	25.0			
FH	(60°-80°)	671.2	20.8			G1/1800
FVH	(80°-90°)	16.9	0.5			G1/100
BL	(0°-30°)	117.1	3.6	B1/500		
BM	(30°-60°)	806.7	25.0	B1/1000		
BH	(60°-80°)	671.2	20.8	B2/1000		G1/1800
BVH	(80°-90°)	16.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	215.4	216.0	215.8	215.5	215.5	215.5	215.4	214.8	214.7	215.0	215.4
5°	220.4	220.4	220.4	220.4	220.0	220.0	219.6	219.4	219.5	219.2	219.0
7.5°	228.0	227.5	227.5	227.3	227.4	227.0	226.5	225.8	226.0	225.8	225.6
10°	237.0	237.2	236.6	237.2	236.3	236.2	235.5	235.2	235.0	234.5	234.5
12.5°	247.8	247.4	247.4	247.0	246.6	246.4	245.4	245.2	244.5	244.2	243.7
15°	258.0	257.8	257.2	256.5	256.3	256.0	254.8	254.2	254.0	253.2	252.5
17.5°	268.2	267.8	267.0	266.6	266.0	265.5	264.5	263.5	263.0	262.6	261.8
20°	279.0	278.7	277.8	277.2	276.4	275.6	274.2	273.4	272.8	272.4	271.6
22.5°	292.5	291.8	290.5	289.4	287.5	286.8	284.8	283.6	282.8	282.2	281.8
25°	307.2	307.4	305.5	304.0	301.8	300.0	297.5	296.2	295.4	294.7	294.5
27.5°	325.5	325.7	324.0	321.8	318.5	316.5	313.2	311.5	311.0	310.3	310.2
30°	354.5	353.0	350.2	346.6	343.7	339.3	334.5	332.8	331.2	330.7	330.6
32.5°	407.8	407.0	404.6	396.0	392.0	383.0	374.5	369.7	364.2	361.5	359.8
35°	445.2	444.8	443.0	440.0	437.5	435.6	430.6	429.8	428.8	428.8	430.2
37.5°	472.7	470.6	470.3	470.8	470.2	470.5	474.5	480.0	484.7	487.0	486.6
40°	513.3	510.5	512.2	511.0	509.5	509.2	510.5	512.6	514.8	514.8	514.3
42.5°	566.5	567.8	568.5	563.7	560.5	559.6	562.8	562.2	564.4	563.5	561.3
45°	645.5	644.7	643.5	637.6	632.6	628.7	629.5	628.4	628.5	627.2	625.5
47.5°	725.2	728.0	723.2	720.4	714.7	711.8	714.2	712.2	716.0	709.0	705.6
50°	802.5	804.5	802.8	798.8	798.8	802.8	805.6	809.3	814.6	806.6	794.6
52.5°	865.8	867.5	870.0	873.4	881.5	890.0	902.0	914.8	925.0	923.5	909.8
55°	904.5	906.5	910.6	922.2	936.8	959.2	986.3	1016.2	1039.5	1050.8	1040.8
57.5°	917.5	919.0	930.4	944.2	967.0	1000.2	1045.6	1097.2	1142.0	1170.5	1166.0
60°	914.5	914.5	926.0	945.0	977.0	1021.0	1085.3	1156.6	1225.4	1268.0	1261.7
62.5°	883.0	884.6	901.2	924.0	962.6	1015.4	1092.0	1183.2	1265.3	1318.4	1313.2
65°	814.0	815.2	833.0	860.2	903.3	965.6	1049.5	1150.5	1244.6	1295.7	1286.0
67.5°	702.5	703.7	718.2	748.8	794.5	859.6	950.2	1061.4	1153.5	1193.8	1164.8
70°	558.8	562.2	571.5	604.0	638.7	702.5	785.8	897.0	984.0	1022.2	990.2
72.5°	380.8	389.3	400.7	429.5	462.6	515.7	582.0	675.7	745.5	789.7	761.2
75°	214.5	226.5	230.0	251.8	279.2	321.0	369.5	436.6	507.2	543.0	508.6
77.5°	92.6	102.5	106.8	117.0	138.4	155.8	185.3	230.6	285.2	310.4	269.2
80°	45.6	48.0	49.8	53.0	59.0	64.6	78.7	98.5	120.8	126.5	100.7
82.5°	35.4	37.0	40.2	42.7	44.2	45.7	47.0	49.6	51.8	53.0	50.0
85°	24.8	27.0	30.5	33.3	35.0	36.2	37.3	38.2	36.2	33.0	34.6
87.5°	6.5	8.5	11.8	12.8	14.5	15.4	15.0	15.5	14.0	10.2	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	214.0	214.0	214.0	214.0	214.0	214.0	214.0	214.0
2.5°	215.2	215.0	215.2	215.2	215.2	215.0	215.0	215.0
5°	219.0	219.0	219.2	218.8	218.8	219.0	218.8	218.7
7.5°	225.5	225.4	225.3	225.2	225.4	225.2	225.2	225.0
10°	234.2	233.8	234.0	233.5	233.5	233.4	233.4	233.3
12.5°	243.5	243.0	243.2	242.6	241.8	242.0	242.2	242.0
15°	252.5	252.0	251.5	251.2	250.6	250.8	250.8	250.7
17.5°	261.6	260.6	260.5	260.0	259.8	259.8	259.8	260.0
20°	271.2	270.5	270.4	269.8	269.6	270.2	270.4	270.0
22.5°	281.4	281.0	281.4	281.0	281.5	281.8	282.0	281.7
25°	294.2	293.8	294.4	295.5	296.2	296.5	297.4	297.0
27.5°	310.6	310.4	311.5	313.2	314.2	315.8	316.7	317.0
30°	332.0	333.5	334.2	337.5	338.2	340.8	340.8	342.0
32.5°	363.0	365.8	370.8	376.0	383.2	388.4	388.4	391.0
35°	431.0	432.2	436.0	436.8	438.4	440.0	438.4	439.7
37.5°	483.2	478.0	474.4	469.2	466.0	466.0	466.4	466.0
40°	509.8	507.8	506.2	501.8	501.2	501.0	501.0	501.7
42.5°	557.5	552.7	550.0	546.3	545.2	544.8	544.6	545.0
45°	619.5	611.7	604.5	600.8	597.7	594.6	595.6	595.7
47.5°	691.6	679.5	667.8	661.5	656.0	653.5	651.8	651.3
50°	779.5	762.5	747.5	735.7	727.7	727.5	728.3	723.0
52.5°	887.2	860.4	841.6	825.6	818.2	817.3	814.7	811.7
55°	1006.5	974.6	943.8	926.6	916.8	911.5	908.4	903.3
57.5°	1129.5	1086.6	1042.4	1014.8	997.5	985.5	979.2	976.3
60°	1224.4	1165.8	1107.4	1063.2	1034.3	1016.5	1005.5	1001.0
62.5°	1261.6	1182.3	1107.4	1049.3	1007.6	983.0	968.2	961.7
65°	1217.2	1123.2	1037.8	973.8	927.4	899.8	883.6	876.7
67.5°	1092.8	1009.8	917.0	853.4	805.5	778.4	760.8	755.7
70°	916.2	831.3	742.6	685.8	643.2	621.0	602.8	600.7
72.5°	688.5	615.3	539.4	492.4	458.0	421.3	412.0	416.7
75°	441.3	372.8	305.2	262.8	231.5	196.5	183.0	186.3
77.5°	209.0	161.9	116.8	90.3	75.8	64.8	62.0	60.3
80°	77.5	62.8	55.5	52.6	50.7	48.8	47.5	46.0
82.5°	50.2	49.0	47.5	47.0	45.5	43.2	38.8	37.0
85°	37.5	37.5	35.5	35.7	34.5	31.5	27.5	25.3
87.5°	11.0	9.9	9.0	8.3	8.2	7.4	5.3	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)